

FIG. 1

FIG. 2

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graph TD
    START([START ACQUIRE]) --> RLS1[READ LOCK STATUS]
    RLS1 --> STATUS1{STATUS}
    STATUS1 --> BIASED[BIASED TO ME]
    BIASED --> SET[SET QUICKLOCK 202]
    SET --> RLS2[READ LOCK STATUS 203]
    RLS2 --> CHANGED{CHANGED? 204}
    CHANGED -- NO --> END([END ACQUIRE])
    CHANGED -- YES --> CLEAR[CLEAR QUICKLOCK 205]
    CLEAR --> RLS3[READ LOCK STATUS 206]
    RLS3 --> STATUS1
    NEUTRAL --> SYNCH1[SYNCHRONIZED UPDATE  
(e.g., using CAS)  
TO SET QUICKLOCK  
AND BIAS TO SELF 211]
    SYNCH1 --> SUCCESS1{SUCCESS? 212}
    SUCCESS1 -- NO --> RLS4[READ LOCK STATUS 213]
    RLS4 --> SYNCH2[SYNCHRONIZED UPDATE  
(e.g., using CAS)  
TO REVOKE BIAS 221]
    SYNCH2 --> STATUS2{STATUS 223}
    STATUS2 -- STILL BIASED --> WAIT1((WAIT 241))
    WAIT1 --> ACQ1[ACQUIRE  
DEFAULT LOCK 231]
    ACQ1 --> STATUS3{STATUS=DEFAULT 222}
    STATUS3 --> WAIT2((WAIT 224))
    WAIT2 --> FREE[QUICKLOCK FREE]
    FREE --> END
    STATUS2 -- REVOKED --> ACQ1
    DEFAULT --> ACQ1
    ACQ1 --> END
  
```

3/3

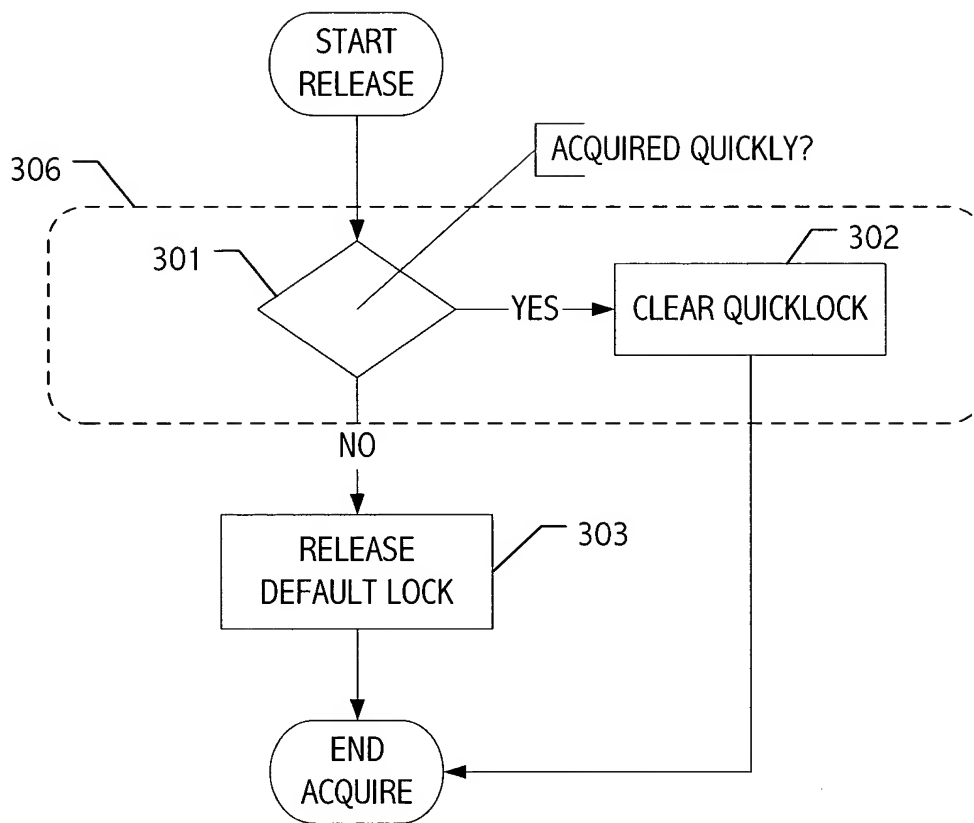


FIG. 3